



2612

313-002.003

#5  
B9  
02-263

IN THE U.S. PATENT AND TRADEMARK OFFICE

Re application of :  
Francis J. Maguire, Jr. :  
Serial No. 10/038,313 :  
Filed: October 22, 2001 :  
For: PASSIVE VIRTUAL REALITY

**RECEIVED**

FEB 20 2003

INFORMATION DISCLOSURE STATEMENT

Technology Center 2600

Assistant Commissioner for Patents  
U.S. Patent and Trademark Office  
Washington DC 20231

Sir:

Applicant submits herewith references of which he is aware, which he believes may be material to the examination of this application and which he may have a duty to disclose in accordance with 37 CFR 1.56.

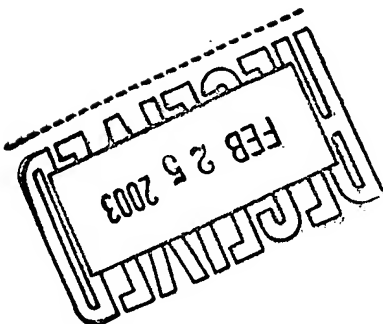
While this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any document referred to herein is "prior art" for this invention unless specifically designated as such.

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as U.S. mail in an envelope addressed to the: Assistant Commissioner for Patents, Washington D.C. 20231.

  
Margery B. Hood

Dated:

Feb. 11, 2003

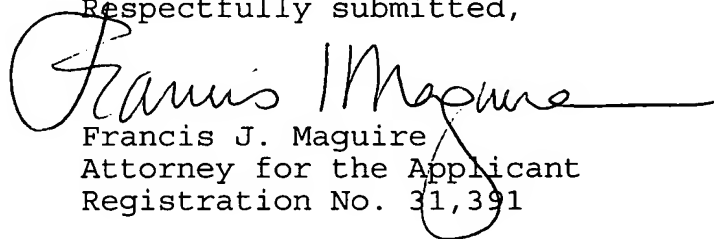


In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement should not be construed to mean that a search has been made or that no other material information as defined under 37 CFR 1.56(a) exists.

The enclosed references are of record in the parent applications 08/001,736, now US Pat. No. 5,422,653; 08/462,503, now US Pat. No. 5,748,382; and 09/072,202, now US Pat. No. 6,307,589. Also enclosed is a PTO-1449 listing the references.

The US patent references will follow shortly by the new email procedure to avoid the need for sending paper copies thereof.

Respectfully submitted,



Francis J. Maguire  
Attorney for the Applicant  
Registration No. 31,391

mbh  
February 11, 2003  
WARE, FRESSOLA, VAN DER SLUYS  
& ADOLPHSON LLP  
755 Main Street, PO Box 224  
Monroe CT 06468  
(203) 261-1234

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

313-002-3

SERIAL NO.

10/038,313

## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

F.J. Maguire Jr

FILING DATE

10/22/01

GROUP

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

RECEIVED

FEB 20 2003

Technology Center 2600

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AL	3-292093	12/91	JP				
AM	5-2116258	1993	JP				
AN	5-569243	1993	JP				
AO	4215532	1993	DE				
AP	06556405	1995	EP				

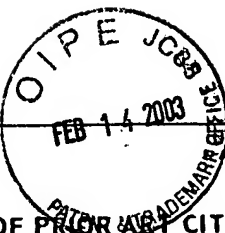
## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	"A Three-Dimensional Electronic Retina Architecture", G. Salada, B.S., Dec. 1987, Defense Technical Information Center Technical Report.
AS	"Stereo and Eye Movement", D. Geiger et al, Massachusetts Institute of Technology, Artificial Intelligence Laboratory, A.I. Memo 927, January 1988.
AT	"Image Focusing in Space and Time", M. Siegel, Carnegie Mellon Univ., the Robotics Institute, Technical Report CMU-RI-TR-88-2, Feb. 1988.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not

LIST OF PRIOR ART CITED BY APPLICANT  
(Use several sheets if necessary)

ATTY. DOCKET NO.

313-002-3

SERIAL NO.

10/038,313

APPLICANT

F.J. Maguire Jr

FILING DATE

10/22/01

GROUP

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

RECEIVED

FEB 20 2003

Technology Center 2600

## FOREIGN PATENT DOCUMENTS

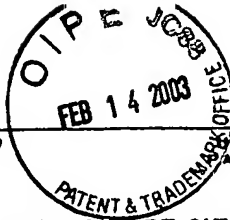
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AL	22721245	1994	GB				
AM							
AN							
AO							
AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	"A Review and Investigation of Aiming and Tracking Performance with Head-Mounted Sights", M. Wells et al, <u>IEEE Transactions on Systems, Man and Cybernetics</u> , Vol. SMC 17, No. 2, Mar/Apr 1987, pp. 210-221.
AS	"Effortless Computing: The Eyes Have It", <u>Science</u> 86, April, p. 12
AT	"Argos: A Display System for Augmenting Reality", D. Drascic et al, <u>Formal Video Program and Proc. Conf. Human Factors in Computing Systems (Interchi '93)</u> , April 24-29, 1993, Amsterdam p. 521.

EXAMINER

DATE CONSIDERED



FORM PTO-1449  
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

313-002-3

SERIAL NO.

10/038,313

Sheet 3 of 6

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

F.J. Maguire, Jr

FILING DATE

10/22/01

GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

RECEIVED

FEB 20 2003

Technology Center 2600

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AL							
AM							
AN							
AO							
AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	"Autocalibration for Virtual Environments Tracking Hardware", S. Gottschalk et al, Computer Graphics Proceedings, Annual Conference Series 1993, pp. 65-72.
AS	"Augmented Reality: An Application of Heads-up Display Tech- nology to Manual Manufacturing Processes", Proc. Hawaii Int'l Conf. System Sciences, Jan. 1992, pp. 659-669. (T. Caudell et al)
AT	"High Resolution Virtual Reality", M. Deering, Computer Graphics, Proc. SIGGRAPH Conf, Vol. 26, No. 2, July 1992, pp. 195-202.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not



## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

313-002-3

SERIAL NO.

10/038,313

APPLICANT

F.J. Maguire, Jr

FILING DATE

10/22/01

GROUP

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
FEB 20 2003  
Technology Center 2600

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	"Through the Lens Camera Control", M. Gleicher et al, <u>Computer Graphics (Proc. SIGGRAPH Conf)</u> Chicago IL July 1992, Vol. 26, No. 2, pp. 331-340.
	AS	"Interacting with Paper on the Digital Desk", P. Wellner, <u>Comm ACM</u> , Vol. 36, No. 7, July 1993, pp. 87-96.
	AT	"Calibration of Head-Mounted Displays for Augmented Reality Applications", A. Janin et al, <u>Proc. Virtual Reality Ann. Int'l Symp. (VRAIS '93)</u> Sept. 1993, pp. 246-255.

EXAMINER

DATE CONSIDERED

Sheet 5 of 6FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

313-002-3

SERIAL NO.

10/038,313

## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT

F.J. Maguire, Jr

FILING DATE

10/22/01

GROUP

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED

FEB 20 2003

Technology Center 2600

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	"Knowledge-Based Augmented Reality", S. Feiner et al, Comm ACM, July 1993, Vol. 36, No. 7, pp. 53-62.
	AS	"Applications of Augmented Reality for Human-Robot Communications", P. Milgram et al, Proc IROS '93: Int'l Conf. Intelligent Robots and Systems, July 1993, Yokohama, pp. 1.467 - 1.472.
	AT	"Video See-through Design for Merging of Real and Virtual Environments", E. Edwards et al, IEEE Virtual Reality Ann. Int'l Symp., Sept. 18-22, 1993, Seattle WA, pp. 223-233.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not



FORM PTO-1449  
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

313-002-3

SERIAL NO.

10/038,313

APPLICANT

F.J. Maguire, Jr

FILING DATE

10/22/01

GROUP

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
FEB 20 2003  
Technology Center 2600

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	"Merging Virtual Objects with the Real World: Seeing Ultrasound Imagery within the Patient", M. Bajura et al, <u>Computer Graphics Proceedings</u> , July 1992, Vol. 26, No. 2, pp. 203-210.
AS	"High-Resolution Inserts in Wide-Angle Head-Mounted Stereoscopic Displays", E. Howlett et al, <u>SPIE Vol. 1669, Stereoscopic Displays and Applications III</u> (1992), pp. 193-203.
AT	"Proposal for a Large Visual Field Display Employing Eye Tracking", H. Yamaguchi et al, <u>SPIE Vol. 1194, Optics, Illumination and Image Sensing for Machine Vision IV</u> (1989) pp. 13-20.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not